AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Original) A method for maintaining a gain of an amplifier circuit substantially constant over an extended bandwidth comprising:

providing a sourcing circuit with a substantially inductive impedance characteristic;

compensating for a reactive input impedance associated with the load; and

matching the sourcing circuit to a modulation circuit to obtain a substantially constant voltage gain from the modulation circuit.

- 2. (Original) The method of claim 1 wherein the providing further comprises providing at least one transistor.
- 3. (Original) The method of claim 2 wherein the providing further comprises configuring the transistor to exhibit a substantially inductive impedance.
- 4. (Original) The method of claim 2 wherein the providing further comprises coupling a resistor to the gate of the transistor.

- 5. (Original) The method of claim 2 wherein the providing further comprises coupling a variable resistor to the gate of the transistor.
- 6. (Original) The method of claim 2 wherein the providing further comprises providing an inductor.
- 7. (Original) The method of claim 1 wherein the compensating further comprises providing a reactive network coupled to the modulation circuit.
- 8. (Original) The method of claim 7 wherein the providing a reactive network further comprises providing a broadband matching network.
- 9. (Original) The method of claim 8 wherein the broadband matching network only partially compensates for the reactive impedance associated with the load.
- 10. (Original) The method of claim 8 wherein the broadband matching network over compensates for the reactive impedance associated with the load.
- 11. (Original) The method of claim 8 wherein the providing a broadband matching network further comprises providing a plurality of inductors, wherein at least one of the inductors is coupled to the load.

- 12. (Original) The method of claim 9 wherein the providing a broadband matching network further comprises providing a capacitor.
- 13. (Original) An amplifier with an extended bandwidth, the amplifier providing an output signal to a load, the amplifier comprising:
- a sourcing circuit with a substantially inductive impedance characteristic; and
- a reactive network configured to compensate for effects associated with the reactive impedance of the load.
- 14. (Original) The amplifier of claim 13 wherein the sourcing circuit further comprises at least one transistor configured to exhibit a substantially inductive impedance.
- 15. (Original) The amplifier of claim 13 wherein said amplifier includes a modulation circuit coupled to the reactive network.
- 16. (Original) The amplifier of claim 13 wherein the reactive network is a broadband matching network.
- 17. (Currently Amended) The amplifier of claim $\frac{24}{16}$ wherein the broadband matching network comprises an inductor.
- 18. (Currently Amended) The amplifier of claim $\frac{24}{13}$ wherein the reactive network is a bridged-T matching network.

- 19. (Original) An amplifier for driving a load, the amplifier comprising:
- a sourcing circuit with a substantially inductive impedance characteristic that provides a current to the load;
- a modulation circuit that modulates the current from said sourcing circuit; and
- a reactive network coupled to the modulation circuit that substantially cancels reactive effects associated with the load.
- 20. (Original) The amplifier of claim 19 wherein the reactive network is a broadband matching network.